

**Open PhD position (m/f/d):
Implications of secondary DNA structure for immune response**

The lab of Prof. Dr. Katrin Paeschke (Laboratory of nucleic acids structures and repair/ www.paeschkelab.de) is looking for a highly motivated and determined candidate for a PhD position. The position will be part of the Immunosenescence Excellence Cluster: <https://www.immunosenescence.de/home.html>

The PhD student will elucidate how G-quadruplex DNA structures stimulate immune response. G-quadruplex are stable DNA structures that form within G-rich regions. They are implicated to influence DNA replication, transcription and DNA repair events. Due to their stability a tight regulation of G4 formation and unfolding is essential to preserve genome stability. In recent years it is clear that changes in genome stability have a huge impact on immune response. In the project, he/she will shed light on G4 mediated genome instability and how these structures are sensed by the immune pathway. He/She will use different genome wide, biochemical and molecular biological techniques in human tissue culture cells. See Paeschke et al 2011 Cell, Paeschke et al 2013 Nature, Wanzek et al 2017 NAR or Sauer & Paeschke 2017 for more information on the work in the Paeschke lab. The position is initially limited to three years

Requirements:

- Strong interest in genome stability, DNA repair and immune response
- M.Sc. in bio-molecular sciences, medical biology or related area
- Inquisitive and independent research attitude
- Beneficial: experience in molecular biology, biochemistry or genome wide analysis

More information:

We also offer a salary according to German salary scale TV-L EG 13 65% and the possibility to acquire a Jobticket for transportation as well as participation in the private retirement fund program VBL for state employed personnel.

For more information about the research in the Paeschke lab visit www.paeschkelab.de

For questions about this vacancy you may contact:

Prof. Dr. K. Paeschke, Team leader, email: Katrin.paeschke@ukbonn.de

The University of Bonn is committed to diversity and equal opportunity. It is certified as a family-friendly university. It aims to increase the proportion of women in areas where women are under-represented and to promote their careers in particular. It therefore urges women with relevant qualifications to apply. Applications will be handled in accordance with the *Landesgleichstellungsgesetz* (State Equality Act). Applications from suitable individuals with a certified serious disability and those of equal status are particularly welcome.

How to apply:

Please send your resume, a motivation letter and the names of two references referring to the application number 215_2019 (closing date for application is 30.04.2019) by email to Prof. Dr. Katrin Paeschke (Katrin.paeschke@ukbonn.de).